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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/036,196	12/28/2001	Jingmin He	YOR92001-0553 (8728-537)	2834
46069	7590	07/01/2005	EXAMINER	
F. CHAU & ASSOCIATES, LLC 130 WOODBURY ROAD WOODBURY, NY 11797			FIELDS, COURTNEY D	
			ART UNIT	PAPER NUMBER

2137

DATE MAILED: 07/01/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/036,196

Applicant(s)

HE ET AL.

Examiner

Courtney D. Fields

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 28 December 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-14 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-14 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

1. Claims 1-14 are pending.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-14 are rejected under 35 U.S.C. 102(e) as being anticipated by Newman et al. (Pub No. 2003/0046572).

Regarding claims 1 and 8, Newman et al. discloses a method and program storage of internally encrypting data in a relational database, comprising the steps of:

providing a security dictionary (DBENCRYPT package) comprising one or more security catalogs (DBENCRYPT_KEYS table) receiving the data from a user

(See page 1, Section 0004 and page 2, Sections 0027-0030)

associating the data with a database column and at least one authorized user,

generating a working encryption key (data key), internally encrypting the working encryption key using a public key from an authorized user (See page 3, Sections 0031-0034)

storing the encrypted working key in a security catalog and

using the working key to internally encrypt the data (See page 3, Section 0035)

Regarding claims 2 and 9, Newman et al. discloses the claimed limitation wherein the step of generating a private key needed to decrypt the encrypted working key (See page 3, Section 0037)

Regarding claims 3 and 10, Newman et al. discloses the claimed limitation wherein the public key is a password and is used by the system to look up the private key (See page 3, Sections 0043-0050, page 4, Sections 0051-0059)

Regarding claims 4 and 11, Newman et al. discloses the claimed limitation wherein the step of associating the data with a database column and a user is accomplished with an extended SQL syntax and further comprises the step of creating a relational database object comprising:

the identity of the authorized user, (See page 4, Section 0064-0066)

a relational database table, (See page, Section 0067)

the identity of column within the relational database table, and (See page 4, Section 0069)

one or more security flags the flags indicating user privileges to access the data (See page 4, Sections 0070-0071)

Regarding claims 5 and 12, Newman et al. discloses the claimed limitation wherein the working key is provided by the user (See page 3, Sections 0035-0036)

Regarding claims 6 and 13, Newman et al. discloses the claimed limitation wherein the working key is randomly generated (See page 2, Section 0019, page 3, Section 0034)

Regarding claims 7 and 14, Newman et al. discloses the claimed limitation wherein the steps of:

receiving a query and private key from a user,
checking the ownership of an encrypted column using the security catalog to verify the user is authorized,
internally decrypting the encrypted working encryption key with the private key,
internally decrypting the encrypted column with the working key,
processing the query, and
returning an answer to the query to the user (See page 4, Sections 0072-0080, page 5, Sections 0081-0089)

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Courtney D. Fields whose telephone number is 571-272-3871. The examiner can normally be reached on Mon - Thurs. 6:00 - 4:00 pm; off every Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Emmanuel Moise can be reached on 571-272-3865. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

CDF

cdf

June 26, 2005

Matthew D. Smithers
MATTHEW SMITHERS
PRIMARY EXAMINER
Art Unit 2137